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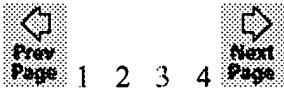
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21 Back matter

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ACM SIGSOFT Software Engineering Notes staff
ACM SIGSOFT Software Engineering Notes May 2003
Volume 28 Issue 3

22 A security model for distributed computing

77%

Iliya K. Georgiev , Ivo I. Georgiev
The Journal of Computing in Small Colleges October 2001
Volume 17 Issue 1

This paper presents a multi-tier model for secure computing as a teaching method platform. The security model is based on establishing the trustworthiness and role of each component in a distributed computing environment: trusted users, trusted servers, trusted administrators, untrusted client, untrusted communication media and intermediate systems, etc. The model provides a basis for teaching and for program system design. The security dimensions (both social and technical) can be considered in ...

23 An innovative design approach to build virtual environment systems

77%

M. Oliveira , J. Crowcroft , M. Slater
Proceedings of the workshop on Virtual environments May 2003
A Virtual Environment (VE) presents a complex problem with interesting non-trivial challenges for software development. The majority of existing systems supporting VE are based on monolithic architectures, making maintenance and software reuse difficult at best. When a novel concept or idea requires implementation, it is not possible to extend an existing

system by replacing or incrementing the necessary functionality. This leads to a proliferation of VE systems. This paper identifies some of the ...

- 24 Web mining for web personalization** 77%
 Magdalini Eirinaki , Michalis Vazirgiannis
ACM Transactions on Internet Technology (TOIT) February 2003
Volume 3 Issue 1
Web personalization is the process of customizing a Web site to the needs of specific users, taking advantage of the knowledge acquired from the analysis of the user's navigational behavior (usage data) in correlation with other information collected in the Web context, namely, structure, content, and user profile data. Due to the explosive growth of the Web, the domain of Web personalization has gained great momentum both in the research and commercial areas. In this article we present a survey ...
- 25 Industry track papers and presentations: product lines: Integrating hundred's of products through one architecture: the industrial IT architecture** 77%
 Lars G. Brathall , Robert van der Geest , Holger Hofmann , Edgar Jellum , Zbigniew Korendo , Robert Martinez , Michal Orkisz , Christian Zeidler , Johan S Andersson
Proceedings of the 24th international conference on Software engineering May 2002
During the last few years, software product line engineering has gained significant interest as a way for creating software products faster and cheaper. But what architecture is needed to integrate huge amounts of products, from different product lines? This paper describes such an architecture and its support processes and tools. Through cases, it is illustrated how the architecture is used to integrate new --- and old --- products in such diverse integration projects as vessel motion control, ...
- 26 Industry perspectives: Toward autonomic computing with DB2 universal database** 77%
 Sam S. Lightstone , Guy Lohman , Danny Zilio
ACM SIGMOD Record September 2002
Volume 31 Issue 3
As the cost of both hardware and software falls due to technological advancements and economies of scale, the cost of ownership for database applications is increasingly dominated by the cost of people to manage them. Databases are growing rapidly in scale and complexity, while skilled database administrators (DBAs) are becoming rarer and more expensive. This paper describes the self-managing or autonomic technology in IBM's DB2 Universal Database® for UNIX and Windows to illustrate how self ...
- 27 Applications: Achieving interoperability for integration of heterogeneous COTS geographic information systems** 77%
 Shengru Tu , Liang Xu , Mahdi Abdelguerfi , Jay J. Ratcliff
Proceedings of the tenth ACM international symposium on Advances in geographic information systems November 2002
Using multiple commercial off-the-shelf (COTS) GIS suites is a common phenomenon, because different COTS products often have different strengths in various applications. On the other hand, deploying heterogeneous GIS software has the tendency to form fragmented data sets and to cause inconsistency. Data consolidation is an effective way to preserve data integrity. To accomplish this, we must achieve interoperability between different GIS tools. While vector spatial data have the standard databases ...

- 28 Document reuse and semantics: A dynamic user interface for document assembly 77%
 Miro Lehtonen , Renaud Petit , Oskari Heinonen , Greger Lindén
Proceedings of the 2002 ACM symposium on Document engineering November 2002
Document assembly has turned out to be a convenient approach to corporate publishing and reuse of large collections of documents. Automated assembly of a document reduces the amount of human effort when creating customized documents consisting of document fragments from a collection. However, most methods used require a number of parameters to be defined prior to the assembly process, and providing these parameters in the correct format is seen to be too demanding for an average user. We have des ...
- 29 Research centers: Research in multi-organizational processes and semantic information brokering at the LSDIS lab 77%
 Amit Sheth , John Miller , Krys Kochut , Budak Arpinar
ACM SIGMOD Record December 2001
Volume 30 Issue 4
- 30 MOVE:: component groupware foundations for collaborative virtual environments 77%
 Pedro García , Oriol Montalà , Carles Pairot , Robert Rallo , Antonio Gómez Skarmeta
Proceedings of the 4th international conference on Collaborative virtual environments September 2002
The design of a Virtual Environment (VE) is a distributed problem of multi-user access to shared resources. Such problem requires careful design decisions in order to provide a seamless system infrastructure capable of supporting flexible interactions in the shared scenarios. The complexity of this domain has led to intricate software systems that provide ad-hoc solutions to specific problems. Furthermore, many of them have gone to a dead end, due to their non-extensible design and their lack of ...
- 31 Developing and integrating enterprise components and services: Applying model-integrated computing to component middleware and enterprise applications 77%
 Aniruddha Gokhale , Douglas C. Schmidt , Balachandran Natarajan , Nanbor Wang
Communications of the ACM October 2002
Volume 45 Issue 10
Combining the best elements of these two technologies can address the key challenges associated with developing enterprise applications.
- 32 Context and Location: MRM server: a context-aware and location-based mobile e-commerce server 77%
 Lai Jin , Tatsuo Miyazawa
Proceedings of the 2nd international workshop on Mobile commerce September 2002
This paper introduces a Mobile Resource Management (MRM) system for mobile E-commerce developed last year, mainly focusing on the server's implementation. The major advantages of the MRM are: (1) It provides location-based and context-aware services for mobile users. (2) It helps mobile E-commerce service providers (such as local advertisers) improve the effectiveness of their services, (for example through: better advertisements). (3) It improves real-time E-commerce services. In this paper, we ...

- 33 Context and Location: Framework for security and privacy in automotive telematics 77%
 Sastry Duri , Marco Gruteser , Xuan Liu , Paul Moskowitz , Ronald Perez , Moninder Singh , Jung-Mu Tang
Proceedings of the 2nd international workshop on Mobile commerce September 2002
Automotive telematics may be defined as the information-intensive applications that are being enabled for vehicles by a combination of telecommunications and computing technology. Telematics by its nature requires the capture of sensor data, storage and exchange of data to obtain remote services. In order for automotive telematics to grow to its full potential, telematics data must be protected. Data protection must include privacy and security for end-users, service providers and application pr ...
- 34 Future of simulation: The expanding role of simulation in future manufacturing 77%
 Charles McLean , Swee Leong
Proceedings of the 33nd conference on Winter simulation December 2001
Simulation technology holds tremendous promise for reducing costs, improving quality, and shortening the time-to-market for manufactured goods. Unfortunately, this technology still remains largely underutilized by industry today. This paper suggests benefits to industry resulting from the widespread, pervasive implementation of manufacturing simulation technology. Potential simulation impact areas are closely intertwined with strategic manufacturing. Yet, a number of factors currently inhibit th ...
- 35 Components: A component-based application framework for manufacturing execution systems in C# and .NET 77%
 Reinhard Füricht , Herbert Prähofer , Thomas Hofinger , Josef Altmann
Proceedings of the Fortieth International Conference on Tools Pacific: Objects for internet, mobile and embedded applications - Volume 10 February 2002
This paper describes the design and realization of a component-based application framework to develop Manufacturing Execution Systems (MES). Manufacturing Execution Systems (MES) are a recently defined category of industrial software for the plant floor/manufacturing environment. The overall goal has been to enable the development of MES software systems by composition and extensions of prefabricated building blocks. The framework-based development of MES applications guarantees significant redu ...
- 36 Experience: Development of an electronic commerce portal system using a specific software development process 77%
 Volker Gruhn , Martin Mocke , Lothar Schöpe
Proceedings of the Fortieth International Conference on Tools Pacific: Objects for internet, mobile and embedded applications - Volume 10 February 2002
The development of electronic commerce (EC) systems is subject to different conditions than that of conventional software systems. Consequently, software development processes used for conventional systems to date need to be adapted to these new conditions. This includes the introduction of new activities to the development process and the removal of others. In addition, the roles involved in the development process, their tasks, qualifications and the software tools used by them, are different ...
- 37 Rapid assembly and deployment of domain visualisation solutions 77%

 Tim Pattison , Rudi Vernik , Daniel Goodburn , Matthew Phillips
Australian symposium on Information visualisation - Volume 9 December 2001
Information visualisation exploits the natural perceptual capabilities of the decision-maker to facilitate the rapid assimilation and analysis of abstract, complex and often voluminous information. In this paper we argue that a major advance for computer-based information visualisation will be the definition of an open, component-based framework to support the rapid assembly and deployment of visualisation solutions. The proposed visualisation framework should not only support and extend the fun ...

38 To teach the unteachable class: an experimental course in web-based application design 77%

 Kevin Treu
ACM SIGCSE Bulletin , Proceedings of the 33rd SIGCSE technical symposium on Computer science education February 2002

Volume 34 Issue 1

In the current Web-dominated computing environment, it is increasingly important that students learn the principles of Web-based application design. But this topic is so broad and includes so many different technologies that it is virtually impossible to design an effective class around the traditional lecture-based model. This paper describes a successful approach to teaching the subject that uses a seminar format and features faithful simulation of real world development processes, meaningful ...

39 Virtual enterprises: challenges from a database perspective 77%

 Ralf Neubert , Oliver Langer , Otmar Görlitz , Wolfgang Benn
Australian Computer Science Communications January 2001

Volume 23 Issue 6

Non-hierarchical Regional Production Networks are the vision of a Virtual Enterprise (VE) model followed in a collaborative research project, that has been launched in January 2000 at the Chemnitz University of Technology. The aim of the project is to develop a model that makes small and medium sized enterprises in a region as competitive as large-scale companies. A cooperation of various complementary small VE units, so called competence cells, is considered as a network. This paper sketches th ...

40 Virtual enterprises: building blocks for dynamic e-business 77%

 Nitin Nayak , Kumar Bhaskaran , Raja Das
Australian Computer Science Communications January 2001

Volume 23 Issue 6

Dynamic e-business, as envisioned by several industry analysts and corporate leaders, involves the rapid teaming of companies with both familiar and new business partners in pursuit of specific market opportunities. For realizing this new generation business model, the ability to form, operate, and disband virtual enterprises will be the single-most important requirement. These short-lived, opportunity-based organizations leverage the individual capabilities of several member companies to form v ...

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- 41** [Linux in education: Implementing a research knowledge base](#) 77%
 Michael Yuan
Linux Journal November 2001
Volume 2001 Issue 91
- 42** [Ontologies: A pragmatic application of the semantic web using SemTalk](#) 77%
 Christian Fillies , Gay Wood-Albrecht , Frauke Weichardt
Proceedings of the eleventh international conference on World Wide Web May 2002
The is a new layer of the Internet that enables semantic representation of the contents of existing web pages. Using common ontologies, human users sketch out the most important facts in models that act as intelligent whiteboards. Once models are broadcasted to the Internet, new and intelligent search engines, "ambient" intelligent devices and agents would be able to exploit this knowledge network. [1]. The main idea of SemTalk is to empower end users to contribute to the Semantic Web by offering ...
- 43** [Hypermedia in the Large: A comparison of case-based reasoning approaches](#) 77%
 Emilia Mendes , Nile Mosley , Ian Watson
Proceedings of the eleventh international conference on World Wide Web May 2002
Over the years software engineering researchers have suggested numerous techniques for estimating development effort. These techniques have been classified mainly as algorithmic, machine learning and expert judgement. Several studies have compared the prediction accuracy of those techniques, with emphasis placed on linear regression, stepwise regression, and Case-based Reasoning (CBR). To date no converging results have been obtained and we

believe they may be influenced by the use of the same C ...

- 44 Future of simulation: Simulation in the international IMS MISSION project: the IMS MISSION architecture for distributed manufacturing simulation 77%
 Charles McLean , Frank Riddick
Proceedings of the 32nd conference on Winter simulation December 2000
This paper presents an overview of a neutral reference architecture for integrating distributed manufacturing simulation systems with each other, with other manufacturing software applications, and with manufacturing data repositories. Other manufacturing software applications include, but are not limited to systems used to: 1) design products, 2) specify processes, 3) engineer manufacturing systems, and 4) manage production. The architecture identifies the software building blocks and interface ...
- 45 Review: KDevelop 1.4 77%
 Petr Sorfa
Linux Journal July 2001
Volume 2001 Issue 87
- 46 Reports: Report on the 18th British National Conference on Databases (BNCOD) 77%
 Carole Goble , Brian Read
ACM SIGMOD Record March 2002
Volume 31 Issue 1
The annual series of the British National Conference on Databases has been a forum for UK database practitioners and a focus for database research since 1981. In recent years, interest in this conference series has extended well beyond the UK. BNCOD 2001, the 18th conference in the series, was held at the CLRC Rutherford Appleton Laboratory (RAL) from 9th -11th July 2001. RAL hosts national large-scale facilities for advanced scientific research. The Information Technology Department collaborates ...
- 47 Spoken dialogue technology: enabling the conversational user interface 77%
 ACM Computing Surveys (CSUR) March 2002
Volume 34 Issue 1
Spoken dialogue systems allow users to interact with computer-based applications such as databases and expert systems by using natural spoken language. The origins of spoken dialogue systems can be traced back to Artificial Intelligence research in the 1950s concerned with developing conversational interfaces. However, it is only within the last decade or so, with major advances in speech technology, that large-scale working systems have been developed and, in some cases, introduced into commerce ...
- 48 Interactive path analysis of web site traffic 77%
 Pavel Berkhin , Jonathan D. Beche , Dee Jay Randall
Proceedings of the seventh ACM SIGKDD international conference on Knowledge discovery and data mining August 2001
The goal of *Path Analysis* is to understand visitors' navigation of a Web site. The fundamental analysis component is a path. A path is a finite sequence of elements, typically representing URLs or groups of URLs. A full path is an abstraction of a visit or a session, which can contain attributes described below. Subpaths represent interesting subsequences of the full paths. Path

Analysis provides user-configurable extraction, filtering, preprocessing, noise reduction, descriptive st ...

- 49 Contigra: an XML-based architecture for component-oriented 3D applications 77%

 Raimund Dachselt , Michael Hinz , Klaus Meißner

Proceeding of the seventh international conference on 3D Web technology February 2002

Even though numerous Web3D technologies exist, most of them do not support a high-level, multi-disciplinary authoring process. Moreover, concepts of reuse are rarely provided. A component-based approach is introduced with the CONTIGRA architecture to construct interactive, three-dimensional applications, either stand-alone or web-based. The approach is entirely based on declarative XML documents describing the component implementation, its interface, as well as component configuration and compo ...

- 50 Abstraction-based intrusion detection in distributed environments 77%

 ACM Transactions on Information and System Security (TISSEC) November 2001

Volume 4 Issue 4

Abstraction is an important issue in intrusion detection, since it not only hides the difference between heterogeneous systems, but also allows generic intrusion-detection models. However, abstraction is an error-prone process and is not well supported in current intrusion-detection systems (IDSs). This article presents a hierarchical model to support attack specification and event abstraction in distributed intrusion detection. The model involves three concepts: *system view, signature* ...

- 51 Technical Session: Organizing new interactions: internet portals in the instructional computer lab 77%

 Owen G. McGrath

Proceedings of the 29th annual ACM SIGUCCS conference on User services October 2001

The U.C. Berkeley E-BABEL project centers on an internet portal for university-level foreign language learners. With E-BABEL's integrated set of linking and communication tools, foreign language instructors are able to offer their students well organized ways on the internet to use, encounter, and reflect upon the language they are studying. Built using the JA-SIG's uPortal technology, the E-BABEL environment's flexible and easily personalized interface addresses the concerns of instructors who ...

- 52 Content integration for e-business 77%

 Michael Stonebraker , Joseph M. Hellerstein

ACM SIGMOD Record , Proceedings of the 2001 ACM SIGMOD international conference on Management of data May 2001

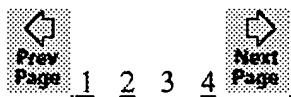
Volume 30 Issue 2

We define the problem of content integration for E-Business, and show how it differs in fundamental ways from traditional issues surrounding data integration, application integration, data warehousing and OLTP. Content integration includes catalog integration as a special case, but encompasses a broader set of applications and challenges. We explore the characteristics of content integration and required services for any solution. In addition, we explore architectural alternatives and discuss ...

- 53 Current technological impediments to business-to-consumer electronic commerce 77%
 Gregory Rose , Huoy Khoo , Detmar W. Straub
Communications of the AIS June 1999
- 54 Web content accessibility guidelines 1.0 77%
 Wendy Chisholm , Gregg Vanderheiden , Ian Jacobs
interactions July 2001
Volume 8 Issue 4
- 55 Domain-specific languages: an annotated bibliography 77%
 Arie van Deursen , Paul Klint , Joost Visser
ACM SIGPLAN Notices June 2000
Volume 35 Issue 6
We survey the literature available on the topic of domain-specific languages as used for the construction and maintenance of software systems. We list a selection of 75 key publications in the area, and provide a summary for each of the papers. Moreover, we discuss terminology, risks and benefits, example domain-specific languages, design methodologies, and implementation techniques.
- 56 The making of Orbix and the iPortal suite 77%
 Sean Baker
Proceedings of the 22nd international conference on Software engineering June 2000
IONA released the first full implementation of the CORBA standard in August 1992, and our first product, Orbix, has become the most successful object request broker, capturing almost 70-percent of this market. It has spawned many follow-on products from IONA and from partner companies. This development followed nearly ten years of research in the area of distributed object systems within Trinity College Dublin, centered on language support for developers of distributed systems. Th ...
- 57 Software configuration management: a roadmap 77%
 Jacky Estublier
Proceedings of the conference on The future of Software engineering May 2000
- 58 Software architecture: a roadmap 77%
 David Garlan
Proceedings of the conference on The future of Software engineering May 2000
- 59 The Next Bang: The Explosive Combination of Embedded Linux, XML and Instant Messaging 77%
 Doc Searls
Linux Journal September 2000
- 60 We Talk to Everybody 77%
 Marjorie Richardson , Jason Schumaker , David Penn
Linux Journal June 2000

A quick look at some of the people who helped make Linux possible.

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77%

Yuzhen Ge , Jiangeng Sun

ACM SIGCSE Bulletin , Proceedings of the thirty-first SIGCSE technical symposium on Computer science education March 2000

Volume 32 Issue 1

Electronic commerce is gradually changing the way the commerce is conducted. Computer science graduates will need to be prepared for the challenge posed by the increasing demand for professionals who can develop and maintain electronic commerce systems. By examining the standard computer science curriculum, some suggestions are proposed.

62 [Integrated technologies for indexing spoken language](#)

77%

Francis Kubala , Sean Colbath , Daben Liu , Amit Srivastava , John Makhoul

Communications of the ACM February 2000

Volume 43 Issue 2

63 [Component-based e-commerce: assessment of current practices and future directions](#)

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Martin Bichler , Arie Segev , J. Leon Zhao

ACM SIGMOD Record December 1998

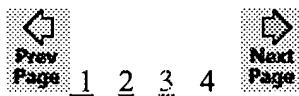
Volume 27 Issue 4

Component-based e-commerce technology is a recent trend towards resolving the e-commerce challenge at both system and application levels. Instead of delivering a system as a prepacked monolith system containing any conceivable feature, component-based systems consist of a lightweight kernel to which new features can be added in the form of components. In order to identify the central problems in component-based e-commerce and ways to deal with them, we

investigate prototype ...

- 64 Cooperative buildings—integrating information, organization and architecture 77%
 Norbert A. Streitz
Proceedings of the 1998 ACM conference on Computer supported cooperative work
November 1998
- 65 Meeting the needs (and preferences) of a diverse World Wide Web audience 77%
 Debbie Hysell
Proceedings of the 16th annual international conference on Computer documentation
September 1998

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- 1 Applications and architecture: SHOCK: communicating with computational messages and automatic private profiles** 82%

Rajan M. Lukose , Eytan Adar , Joshua R. Tyler , Caesar Sengupta

Proceedings of the twelfth international conference on World Wide Web May 2003

A computationally enhanced message contains some embedded programmatic components that are interpreted and executed automatically upon receipt. Unlike ordinary text email or instant messages, they make possible a number of useful applications. In this paper, we describe a general and flexible messaging system called SHOCK that extends the functionality of prior computational email systems by allowing XML-encoded SHOCK messages to interact with an automatically created profile of a user. These pr ...

- 2 An approach to designing reusable service frameworks via virtual service machine** 82%

Jun-Jang Jang

ACM SIGSOFT Software Engineering Notes , Proceedings of the 2001 symposium on Software reusability: putting software reuse in context May 2001

Volume 26 Issue 3

This paper proposes a new service-computing platform named Virtual Service Machine (VSM). Service computing is a new paradigm for manufacturing IT artifacts, lifting up traditional focus of software development from the level of applications to that of services. Applications are constructed for machines; services are built for people. Applications are targeted to run on a particular platform; services are aimed for serving user's needs. While service computing is getting much more attention ...

- 3 Workshop on compositional software architectures: workshop report 82%
 **ACM SIGSOFT Software Engineering Notes** May 1998
Volume 23 Issue 3
- 4 Industry track papers and presentations: technology trends: Building enterprise portals: principles to practice 80%
 Tushar K. Hazra
Proceedings of the 24th international conference on Software engineering May 2002
Primary objective of this paper is to offer an exclusive view of constructing and deploying enterprise portals by using a component-based development approach. As the dot-com hype dies down, most companies are forced to revisit their enterprise-wide Web integration strategies. This paper offers a pragmatic roadmap that these companies may follow in their upcoming enterprise portal deployment initiatives. The academic world plays a significant role in the advances of the portal technology. In this ...
- 5 Session 4B: multiagent resource allocation: An industrial application of agents for dynamic planning and scheduling 80%
 Min-Jung Yoo
Proceedings of the first international joint conference on Autonomous agents and multiagent systems: part 1 July 2002
Nowadays, manufacturing industries need more flexible scheduling systems by means of which users can manipulate certain dynamics such as: (i) receiving the changes which impact on a schedule, (ii) simulating a certain condition as an input to scheduling, with the possibility of selecting or rejecting the new result, (iii) concurrent planning and execution. In this paper, a multi-agent system applied to dynamic job shop scheduling and planning is introduced. The above mentioned problems were solv ...
- 6 Design, retrieval, and assembly in component-based software development 80%
 Padmal Vitharana , Fatemah Mariam Zahedi , Hemant Jain
Communications of the ACM November 2003
Volume 46 Issue 11
Until recently, anecdotal evidence could only suggest CBSD superiority in requirements identification. Here is a set of testable hypotheses to help distinguish hype from fact.
- 7 IT acceptance: managing user-&-IT group boundaries 80%
 David Gefen , Catherine M. Ridings
ACM SIGMIS Database August 2003
Volume 34 Issue 3
Users and IT personnel typically belong to different organizational units with different objectives and values. This often creates a perceived boundary between the two units, reducing the degree to which users accept the installation of new IT. Much IT research suggests that increased user involvement and influence on IT development can overcome user - IT personnel differences and thereby increase user acceptance. However, the realization of this objective can be problematic when implementing ne ...
- 8 Poster paper sessions: Collaboration software to reduce inventory and increase response 80%

- 8** Indu Bingham , Barbara Hoefle , Kim Phan , Jim Sizemore , Arthur M. Keller
Proceedings of the 4th ACM conference on Electronic commerce June 2003
 Some recent trends in business and manufacturing hold the promise of greater profits, yet, due to profit-robbing inventory increases, this promise has not been fully realized. [9] The major trends influencing this are:.
- Globally and organizationally distributed suppliers (trading partners). [7,12]
 - Globally and organizationally distributed sales channels (trading partners). [3,5,12]
 - Increasing product variety and customization. [1,2,3,5,7]
- In addition, due to in ...
- 9** Columns: Surfing the net for software engineering notes 80%
Mark Doernhoefer
ACM SIGSOFT Software Engineering Notes September 2002
 Volume 27 Issue 5
- 10** Research sessions: potpourri: Workflow management with service quality guarantees 80%
Michael Gillmann , Gerhard Weikum , Wolfgang Wonner
Proceedings of the 2002 ACM SIGMOD international conference on Management of data June 2002
 Workflow management systems (WFMS) that are geared for the orchestration of business processes across multiple organizations are complex distributed systems: they consist of multiple workflow engines, application servers, and communication middleware servers such as ORBs, where each of these server types can be replicated on multiple computers for scalability and availability. Finding an appropriate system configuration with guaranteed application-specific quality of service in terms of throughput ...
- 11** Computer-supported cooperative work: A service architecture for mobile teamwork 80%
Engin Kirda , Pascal Fenkam , Gerald Reif , Harald Gall
Proceedings of the 14th international conference on Software engineering and knowledge engineering July 2002
 Mobile teamwork has become an emerging requirement in the daily business of large enterprises. Employees collaborate across locations and need support while they are on the move. Business documents (artifacts) and expertise need to be shared independent of the actual location or connectivity (e.g., access through a mobile phone, laptop, Personal Digital Assistant, etc.) of employees. Although many collaboration tools and systems exist, most do not deal with new requirements such as locating arti ...
- 12** Web-based personalization and management of interactive video 80%
Rune Hjelsvold , Subu Vdaygiri , Yves Léauté
Proceedings of the tenth international conference on World Wide Web April 2001
- 13** Software engineering tools and environments: a roadmap 80%
Harold Ossher , William Harrison , Peri Tarr
Proceedings of the conference on The future of Software engineering May 2000

- 14 Evolutionary design of complex software (EDCS) demonstration days 1999** 80%
-  Wayne Stidolph
ACM SIGSOFT Software Engineering Notes January 2000
Volume 25 Issue 1
This report summarizes the Product/Technology demonstrations given at Defense Advanced Research Projects Agency (DARPA) Evolutionary Design of Complex Software (EDCS) Program Demonstration Days, held 28-29 June 1999 at the Sheraton National Hotel, Arlington, VA.
- 15 Web engineering: A visual environment for dynamic web application composition** 77%
-  Kimihito Ito , Yuzuru Tanaka
Proceedings of the fourteenth ACM conference on Hypertext and hypermedia August 2003
HTML-based interface technologies enable end-users to easily use various remote Web applications. However, it is difficult for end-users to compose new integrated tools of both existing Web applications and legacy local applications such as spreadsheets, chart tools and database. In this paper, the authors propose a new framework where end-users can wrap remote Web applications into visual components called *pads*, and functionally combine them together through drag & drop-paste operations. ...
- 16 Quality of service in an information economy** 77%
-  R. Braumandl , A. Kemper , D. Kossmann
ACM Transactions on Internet Technology (TOIT) November 2003
Volume 3 Issue 4
Accessing and processing distributed data sources have become important factors for businesses today. This is especially true for the emerging virtual enterprises with their data and processing capabilities spread across the Internet. Unfortunately, however, query processing on the Internet is not predictable and robust enough to meet the requirements of many business applications. For instance, the response time of a query can be unexpectedly high; or the monetary cost might be too high if the ...
- 17 Knowledge and representation: Convergence of knowledge management and E-learning: the GetSmart experience** 77%
-  Byron Marshall , Yiwen Zhang , Hsinchun Chen , Ann Lally , Rao Shen , Edward Fox , Lillian N. Cassel
Proceedings of the third ACM/IEEE-CS joint conference on Digital libraries May 2003
The National Science Digital Library (NSDL), launched in December 2002, is emerging as a center of innovation in digital libraries as applied to education. As a part of this extensive project, the GetSmart system was created to apply knowledge management techniques in a learning environment. The design of the system is based on an analysis of learning theory and the information search process. Its key notion is the integration of search tools and curriculum support with concept mapping. More tha ...
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-  Douglas C. Schmidt , Frank Buschmann
The knowledge required to develop complex software has historically existed in programming

folklore, the heads of experienced developers, or buried deep in the code. These locations are not ideal since the effort required to capture and evolve this knowledge is expensive, time-consuming, and error-prone. Many popular software modeling methods and tools address certain aspects of these problems by documenting *how* a system is designed. However, they only support limited portions of software ...

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A newcomer to a software project must typically come up-to-speed on a large, varied amount of information about the project before becoming productive. Assimilating this information in the open-source context is difficult because a newcomer cannot rely on the mentoring approach that is commonly used in traditional software developments. To help a newcomer to an open-source project become productive faster, we propose Hipikat, a tool that forms an implicit group memory from the information stored ...

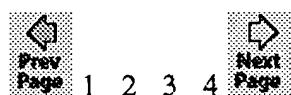
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77%

Giuseppe Valetto , Gail Kaiser

We have developed an infrastructure for end-to-end run-time monitoring, behavior/performance analysis, and dynamic adaptation of distributed software. This infrastructure is primarily targeted to pre-existing systems and thus operates <u>outside</u> the target application, without making assumptions about the target's implementation, internal communication/computation mechanisms, source code availability, etc. This paper assumes the existence of the monitoring and analysis components ...

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61 [Migrating E-commerce database applications to an enterprise Java environment](#) 77%

Terence C. Lau , Jianguo Lu , Erik Hedges , Emily Xing

Proceedings of the 2001 conference of the Centre for Advanced Studies on Collaborative research November 2001

As technology evolves over time, a common problem is the migration of software applications from one technology base to another. This paper is a practical experience report based on IBM Net.Commerce to WebSphere Commerce Suite (WCS) migration. It identifies the problems and issues in the migration of applications using traditional database access (SQL) to applications using the Enterprise Java Bean (EJB) programming model, and presents a practical methodology in facilitating such migration. It a ...

62 [Web-based specification and integration of legacy services](#) 77%

Ying Zou , Kostas Kontogiannis

Proceedings of the 2000 conference of the Centre for Advanced Studies on Collaborative research November 2000

With the explosive growth of the Internet, businesses of all sizes aim on applying networkwide solutions to their IT infrastructures, migrating their legacy business processes into web-based environments, and establishing their own on-line services. To facilitate process and service integration, a complete and information rich service description language, is essential for server processes to be specified and for client processes to be able to locate services that are available in Web-enabled re ...

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 their synergistic relationships

Douglas C. Schmidt , Frank Buschmann

The knowledge required to develop complex software has historically existed in programming folklore, the heads of experienced developers, or buried deep in the code. These locations are not ideal since the effort required to capture and evolve this knowledge is expensive, time-consuming, and error-prone. Many popular software modeling methods and tools address certain aspects of these problems by documenting *how* a system is designed. However, they only support limited portions of software ...

64 Experience reports: software architecture II: The co-evolution of a hype and a software

77%

 architecture: experience of component-producing large-scale EJB early adopters

Lutz Prechelt

abaXX.components was one of the first API software products fully based on Enterprise JavaBeans™ (EJB) technology. We describe the evolution of its architecture as it moved from simply taking the initial EJB hype for the truth, through several intermediate stages, to using EJB simply as one of several encapsulated implementation techniques. So far, the public perception of how to use EJB properly evolved along a similar path, lagging 6 to 12 months behind.

65 Technical papers: software understanding: Hipikat: recommending pertinent software

77%

 development artifacts

Davor ?ubrani? , Gail C. Murphy

A newcomer to a software project must typically come up-to-speed on a large, varied amount of information about the project before becoming productive. Assimilating this information in the open-source context is difficult because a newcomer cannot rely on the mentoring approach that is commonly used in traditional software developments. To help a newcomer to an open-source project become productive faster, we propose Hipikat, a tool that forms an implicit group memory from the information stored ...

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 software adaptation

Giuseppe Valetto , Gail Kaiser

We have developed an infrastructure for end-to-end run-time monitoring, behavior/performance analysis, and dynamic adaptation of distributed software. This infrastructure is primarily targeted to pre-existing systems and thus operates <u>outside</u> the target application, without making assumptions about the target's implementation, internal communication/computation mechanisms, source code availability, etc. This paper assumes the existence of the monitoring and analysis components ...

67 Conferencing: Ubiquitous computing using SIP

77%

 Stefan Berger , Henning Schulzrinne , Stylianos Sidiropoulos , Xiaotao Wu

Proceedings of the 13th international workshop on Network and operating systems support for digital audio and video June 2003

In the past decade, there have been numerous efforts in ubiquitous computing, making computational resources or communication more widely available. We believe that it is time to move to a global-scale ubiquitous computing system that is securable, administered by multiple independent administrators and integrates off-the-shelf hardware and software. We are developing such a system based on the Session Initiation Protocol (SIP), with Bluetooth

devices for location sensing and Service Location Pr ...

- 68 Content management: Design and implementation of a distributed content management system 77%

 C. D. Cranor , R. Ethington , A. Sehgal , D. Shur , C. Sreenan , J. E. van der Merwe

Proceedings of the 13th international workshop on Network and operating systems support for digital audio and video June 2003

The convergence of advances in storage, encoding, and networking technologies has brought us to an environment where huge amounts of continuous media content is routinely stored and exchanged between network enabled devices. Keeping track of (or managing) such content remains challenging due to the sheer volume of data. Storing "live" continuous media (such as TV or radio content) adds to the complexity in that this content has no well defined start or end and is therefore cumbersome to deal with ...

- 69 Streams and time series: Bursty and hierarchical structure in streams 77%

 Jon Kleinberg

Proceedings of the eighth ACM SIGKDD international conference on Knowledge discovery and data mining July 2002

A fundamental problem in text data mining is to extract meaningful structure from document streams that arrive continuously over time. E-mail and news articles are two natural examples of such streams, each characterized by topics that appear, grow in intensity for a period of time, and then fade away. The published literature in a particular research field can be seen to exhibit similar phenomena over a much longer time scale. Underlying much of the text mining work in this area is the following ...

- 70 E-speak e-xplained 77%

 Alan H. Karp

Communications of the ACM July 2003

Volume 46 Issue 7

HP's e-speak is an open software platform designed to simplify Internet-based e-services by making it easier for unrelated Web sites to work together.

- 71 Astrolabe: A robust and scalable technology for distributed system monitoring, management, 77%

 and data mining

Robbert Van Renesse , Kenneth P. Birman , Werner Vogels

ACM Transactions on Computer Systems (TOCS) May 2003

Volume 21 Issue 2

Scalable management and self-organizational capabilities are emerging as central requirements for a generation of large-scale, highly dynamic, distributed applications. We have developed an entirely new distributed information management system called Astrolabe. Astrolabe collects large-scale system state, permitting rapid updates and providing on-the-fly attribute aggregation. This latter capability permits an application to locate a resource, and also offers a scalable way to track sys ...

- 72 Access control with IBM Tivoli access manager 77%

 Günter Karjoh

ACM Transactions on Information and System Security (TISSEC) May 2003

Volume 6 Issue 2

Web presence has become a key consideration for the majority of companies and other organizations. Besides being an essential information delivery tool, the Web is increasingly being regarded as an extension of the organization itself, directly integrated with its operating processes. As this transformation takes place, security grows in importance. IBM Tivoli Access Manager offers a shared infrastructure for authentication and access management, technologies that have begun to emerge in the com ...

73 Back matter

77%

 ACM SIGSOFT Software Engineering Notes staff
ACM SIGSOFT Software Engineering Notes May 2003
Volume 28 Issue 3

74 An innovative design approach to build virtual environment systems

77%

 M. Oliveira , J. Crowcroft , M. Slater
Proceedings of the workshop on Virtual environments 2003 May 2003

A Virtual Environment (VE) presents a complex problem with interesting non-trivial challenges for software development. The majority of existing systems supporting VE are based on monolithic architectures, making maintenance and software reuse difficult at best. When a novel concept or idea requires implementation, it is not possible to extend an existing system by replacing or incrementing the necessary functionality. This leads to a proliferation of VE systems. This paper identifies some of the ...

75 Web mining for web personalization

77%

 Magdalini Eirinaki , Michalis Vazirgiannis
ACM Transactions on Internet Technology (TOIT) February 2003
Volume 3 Issue 1

Web personalization is the process of customizing a Web site to the needs of specific users, taking advantage of the knowledge acquired from the analysis of the user's navigational behavior (usage data) in correlation with other information collected in the Web context, namely, structure, content, and user profile data. Due to the explosive growth of the Web, the domain of Web personalization has gained great momentum both in the research and commercial areas. In this article we present a survey ...

76 Special section on semantic web and data management: Conceptual model of web service reputation

77%

 E. Michael Maximilien , Munindar P. Singh
ACM SIGMOD Record December 2002
Volume 31 Issue 4

Current Web services standards enable publishing service descriptions and finding services on a match based on criteria such as method signatures or service category. However, current approaches provide no basis for selecting a good service or for comparing ratings of services. We describe a conceptual model for reputation using which reputation information can be organized and shared and service selection can be facilitated and automated.

77 E-P3P privacy policies and privacy authorization

77%

 Paul Ashley , Satoshi Hada , Günter Karjoth , Matthias Schunter
Proceeding of the ACM workshop on Privacy in the Electronic Society November 2002

Enterprises collect large amounts of personal data from their customers. To ease privacy concerns, enterprises publish privacy statements that outline how data is used and shared. The Platform for Enterprise Privacy Practices (E-P3P) defines a fine-grained privacy policy model. A Chief Privacy Officer can use E-P3P to formalize the desired enterprise-internal handling of collected data. A particular data user is then allowed to use certain collected data for a given purpose if and only if the E- ...

78 The design and applications of a context service

77%

 Hui Lei , Daby M. Sow , John S. Davis , Guruduth Banavar , Maria R. Ebling

ACM SIGMOBILE Mobile Computing and Communications Review October 2002

Volume 6 Issue 4

Context awareness enables applications to adapt themselves to their computing environment in order to better suit the needs of the user and the tasks. This paper describes a general middleware infrastructure for context collection and dissemination, realized as a Context Service. By way of two example applications, this paper also illustrates how context information provided by our context service can be exploited to enhance the user experience. These two applications are built upon the abstract ...

79 Technical papers: software process: Deriving executable process descriptions from UML

77%

 Elisabetta Di Nitto , Luigi Lavazza , Marco Schiavoni , Emma Tracanella , Michele Trombetta

Proceedings of the 24th international conference on Software engineering May 2002

In the recent past, a relevant effort has been devoted to the definition of process modeling languages (PMLs). The resulting languages and environments -although technically successful-did not receive much attention from industry. On the contrary, researchers and practitioners have recently started experimenting with the usage of UML as a PML. Being so popular and widely used, UML has an important competitive advantage compared to any specialized PML. However, it has also a main limitation. Whil ...

80 A model of OASIS role-based access control and its support for active security

77%

 Jean Bacon , Ken Moody , Walt Yao

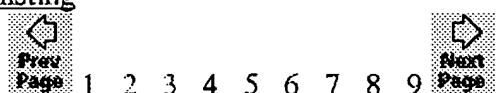
ACM Transactions on Information and System Security (TISSEC) November 2002

Volume 5 Issue 4

OASIS is a role-based access control architecture for achieving secure interoperation of services in an open, distributed environment. The aim of OASIS is to allow autonomous management domains to specify their own access control policies and to interoperate subject to service level agreements (SLAs). Services define roles and implement formally specified policy to control role activation and service use; users must present the required credentials, in an appropriate context, in order to activat ...

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- 41 Access control mechanisms for inter-organizational workflow** 80%
- Myong H. Kang , Joon S. Park , Judith N. Froscher
Proceedings of the sixth ACM symposium on Access control models and technologies
May 2001
- As more businesses engage in globalization, inter-organizational collaborative computing grows in importance. Since we cannot expect homogeneous computing environments in participating organizations, heterogeneity and Internet-based technology are prevalent in inter-organizational collaborative computing environments. One technology that provides solutions for data sharing and work coordination at the global level is inter-organizational workflow. In this paper, we investigate the access co ...
- 42 Towards a taxonomy of software connectors** 80%
- Nikunj R. Mehta , Nenad Medvidovic , Sandeep Phadke
Proceedings of the 22nd international conference on Software engineering June 2000
- Software systems of today are frequently composed from prefabricated, heterogeneous components that provide complex functionality and engage in complex interactions. Existing research on component-based development has mostly focused on component structure, interfaces, and functionality. Recently, software architecture has emerged as an area that also places significant importance on component interactions, embodied in the notion of software connectors. However, the current level of underst ...
- 43 Software engineering tools and environments: a roadmap** 80%
- Harold Ossher , William Harrison , Peri Tarr
Proceedings of the conference on The future of Software engineering May 2000

- 44 Evolutionary design of complex software (EDCS) demonstration days 1999 80%
 Wayne Stidolph
ACM SIGSOFT Software Engineering Notes January 2000
Volume 25 Issue 1
This report summarizes the Product/Technology demonstrations given at Defense Advanced Research Projects Agency (DARPA) Evolutionary Design of Complex Software (EDCS) Program Demonstration Days, held 28-29 June 1999 at the Sheraton National Hotel, Arlington, VA.
- 45 Supporting industrial hyperwebs: lessons in scalability 80%
 Kenneth M. Anderson
Proceedings of the 21st international conference on Software engineering May 1999
- 46 Data scalability in open hypermedia systems 80%
 Kenneth M. Anderson
Proceedings of the tenth ACM Conference on Hypertext and hypermedia : returning to our diverse roots: returning to our diverse roots February 1999
- 47 Move to component based architectures: introducing Microsoft's .NET platform into the college classroom 77%
 Meg Murray
The Journal of Computing in Small Colleges January 2004
Volume 19 Issue 3
A transformation has been occurring in the architectural model for computer-based application intense software systems. This new model, software-as-a-service, will have a profound impact on the design and development of software for many years to come and as such college level computing curriculums will need to incorporate the concepts and methodologies associated with this new architecture. The platform is built upon a view of interrelated, distributed peer-level software modules and components ...
- 48 Internet WORMS: past, present, and future: Recent worms: a survey and trends 77%
 Darrell M. Kienzle , Matthew C. Elder
Proceedings of the 2003 ACM workshop on Rapid Malcode October 2003
In this paper, we present a broad overview of recent worm activity. Virus information repositories, such as the Network Associates' Virus Information Library, contain over 4500 different entries (through the first quarter of 2003). While many of these entries are interesting, a great number of them are now simply historical and a large percentage of them are completely derivative in nature. However, these virus information repositories are the best source of material on the breadth of malicious ...
- 49 Supporting multiple consistency models within a mobility enabled file system using a component based framework 77%
 Simon Cuce , Arkady Zaslavsky
Mobile Networks and Applications August 2003
Volume 8 Issue 4
Most existing Distributed File Systems (DFSs) implement a single consistency model to

maintain one-copy equivalence. The functionality of that consistency model is based on a balance between environmental constraints and the targeted level of consistency. Such systems efficiently maintain consistency while the environmental capabilities remain constant, e.g., presuming uninterrupted connectivity. However, when these characteristics change, the inflexible nature of a single consistency model resu ...

- 50 A rule-based framework for role-based delegation and revocation

77%

 Longhua Zhang , Gail-Joon Ahn , Bei-Tseng Chu

ACM Transactions on Information and System Security (TISSEC) August 2003

Volume 6 Issue 3

Delegation is the process whereby an active entity in a distributed environment authorizes another entity to access resources. In today's distributed systems, a user often needs to act on another user's behalf with some subset of his/her rights. Most systems have attempted to resolve such delegation requirements with ad-hoc mechanisms by compromising existing disorganized policies or simply attaching additional components to their applications. Still, there is a strong need in the large, distrib ...

- 51 Web engineering: A visual environment for dynamic web application composition

77%

 Kimihito Ito , Yuzuru Tanaka

Proceedings of the fourteenth ACM conference on Hypertext and hypermedia August 2003

HTML-based interface technologies enable end-users to easily use various remote Web applications. However, it is difficult for end-users to compose new integrated tools of both existing Web applications and legacy local applications such as spreadsheets, chart tools and database. In this paper, the authors propose a new framework where end-users can wrap remote Web applications into visual components called *pads*, and functionally combine them together through drag & drop-paste operations. ...

- 52 Extending Java for high-level Web service construction

77%

 Aske Simon Christensen , Anders Møller , Michael I. Schwartzbach

ACM Transactions on Programming Languages and Systems (TOPLAS) November 2003

Volume 25 Issue 6

We incorporate innovations from the <bigwig> project into the Java language to provide high-level features for Web service programming. The resulting language, JWIG, contains an advanced session model and a flexible mechanism for dynamic construction of XML documents, in particular XHTML. To support program development we provide a suite of program analyses that at compile time verify for a given program that no runtime errors can occur while building documents or receiving form input, and ...

- 53 Intelligent Web services moving toward a framework to compose

77%

 Willem-Jan Van Den Heuvel , Zakaria Maamar

Communications of the ACM October 2003

Volume 46 Issue 10

Intelligent Web services show promise as a means of supporting cross-organizational business transactions.

- 54 The AROUND architecture for dynamic location-based services** 77%
 Rui José , Adriano Moreira , Helena Rodrigues , Nigel Davies
Mobile Networks and Applications August 2003
Volume 8 Issue 4
This paper presents a generic concept of location-based service as an abstraction for supporting the association between computational resources and location. The objective is to extend the advantages of service-based architectures to the development of location-based systems, thus providing a more open and extensible alternative to the "vertical" approaches typically used in this type of system. The novel AROUND architecture is proposed as an approach for supporting location-based services in t ...
- 55 Embedded System Design Based On Webservices** 77%
 A. Rettberg , W. Thronicke
Proceedings of the conference on Design, automation and test in Europe March 2002
The structure of Internet applications and scenarios is changing rapidly today. This offers new potential for established technologies and methods to expand their area of application. New technologies encourage new methodologies to design processes and business-to-business applications. The application of such new advancements should be extended into the domain of the electronic design automation(EDA) industry. In this paper we present an approach to use webservices in the field of embedded system design.
- 56 E-Design Based on the Reuse Paradigm** 77%
 L. Ghanmi , A. Ghrab , M. Hamdoun , B. Missaoui , K. Skiba , G. Saucier
Proceedings of the conference on Design, automation and test in Europe March 2002
This paper gives an overview on a Virtualelectronic component or IP (Intellectual Property)exchange infrastructure whose main components are XML "well structured IP e-catalog Builder" and a XML IP profiler. While the first module is for publishing and an exchange management module the second has as role to extract from the design directories the IP files and to trigger their transfer to the user site possibly via an IP distribution server under the catalog control. Direct Design file extraction fro ...
- 57 Scenarios of using web services in M-commerce** 77%
 T. Pilioura , A. Tsalgatidou , S. Hadjiefthymiades
ACM SIGecom Exchanges December 2002
Volume 3 Issue 4
The web service paradigm is a promising technology for developing applications in open, distributed and heterogeneous environments. The proliferation of this new technology has coincided with significant advances in the hardware and software capabilities of mobile devices. Due to the great benefits that come with the web service technology, such as interoperability, dynamic service discovery and reusability, there is a strong interest in making mobile devices capable of providing and consuming w ...
- 58 Using mobile agents for network resource discovery in peer-to-peer networks** 77%
 Cameron Ross Dunne
ACM SIGecom Exchanges June 2001
Volume 2 Issue 3
Peer-to-Peer networks continue to grow in popularity. However network resource discovery still remains a substantial problem within them. In this paper we will cover some of the more

popular current solutions to this problem. We will then propose a mobile agent based solution to allow for dynamic network resource discovery.

- 59 [Implementing role based access control for federated information systems on the web](#) 77%

 Kerry Taylor , James Murty

Proceedings of the Australasian information security workshop conference on ACSW frontiers 2003 - Volume 21 January 2003

There is rapidly increasing interest in Australia in on-line sharing of information stored in corporate databases, especially within and between staff of independent government agencies. Biological collections databases and population health GIS are good examples of the frequent situation where database custodians are looking for dynamic, distributed, heterogenous federated information system models for information sharing within loosely constituted communities. This paper describes a security m ...

- 60 [Knowledge and representation: Convergence of knowledge management and E-learning: the GetSmart experience](#) 77%

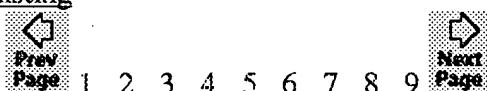
 Byron Marshall , Yiwen Zhang , Hsinchun Chen , Ann Lally , Rao Shen , Edward Fox , Lillian N. Cassel

Proceedings of the third ACM/IEEE-CS joint conference on Digital libraries May 2003

The National Science Digital Library (NSDL), launched in December 2002, is emerging as a center of innovation in digital libraries as applied to education. As a part of this extensive project, the GetSmart system was created to apply knowledge management techniques in a learning environment. The design of the system is based on an analysis of learning theory and the information search process. Its key notion is the integration of search tools and curriculum support with concept mapping. More tha ...

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- 21** [Interaction in the real world: The missing link: augmenting biology laboratory notebooks](#) 80%
 Wendy E. Mackay , Guillaume Pothier , Catherine Letondal , Kaare Bøegh , Hans Erik Sørensen
Proceedings of the 15th annual ACM symposium on User interface software and technology October 2002
Using a participatory design process, we created three prototype augmented laboratory notebooks that provide the missing link between paper, physical artifacts and on-line data. The final *a-book* combines a graphics tablet and a PDA. The tablet captures writing on the paper notebook and the PDA acts as an "interaction lens" or window between physical and electronic documents. Our approach is document-centered, with a software architecture based on layers of physical and electronic informat ...
- 22** [Modeling methodology: Supply chain agent decision aid system \(SCADAS\)](#) 80%
 Anurag Gupta , Larry Whitman , Ramesh K. Agarwal
Proceedings of the 33nd conference on Winter simulation December 2001
Supply chain decisions are improved with access to global information. However, supply chain partners are frequently hesitant to provide full access to all the information within an enterprise. A mechanism to make decisions based on global information without complete access to that information is required for improved supply chain decision making. Mobile agents can support this requirement and these are the programs that can be initiated on a single host and then migrate from host to host over ...
- 23** [Extending a persistent object framework to enhance enterprise application server performance](#) 80%

 John Grundy , Steve Newby , Thomas Whitmore , Peter Grundeman
Australian Computer Science Communications , Proceedings of the thirteenth Australasian conference on Database technologies - Volume 5 January 2002
Volume 24 Issue 2

High-volume transaction processing speed is critical for adequate performance in many enterprise application servers. We describe our experiences using an object-oriented persistency framework to achieve greatly enhanced server response by the transparent use of main-memory database technology. We took an application server whose data persistency is abstracted via a persistent object framework and replaced a version of the framework using a relational database for persistency with one that uses ...

24 Service deployment for virtual enterprises

80%

 J. Yang , W. J. van den Heuvel , M. P. Papazoglou
Australian Computer Science Communications January 2001
Volume 23 Issue 6

The ubiquity of the WWW offers far reaching opportunities for emerging web-based applications based on service invocations. Although network-centric technologies will make the diverse services easily accessible via the Web, the development of E-commerce services (e-services) and networked services which share existing e-services is still an ad-hoc, very demanding, and time consuming task. In this paper we propose an integrated framework for e-services spanning legacy systems and modern enterpris ...

25 Session 4B: multiagent resource allocation: An industrial application of agents for dynamic planning and scheduling

80%

 Min-Jung Yoo
Proceedings of the first international joint conference on Autonomous agents and multiagent systems: part 1 July 2002

Nowadays, manufacturing industries need more flexible scheduling systems by means of which users can manipulate certain dynamics such as: (i) receiving the changes which impact on a schedule, (ii) simulating a certain condition as an input to scheduling, with the possibility of selecting or rejecting the new result, (iii) concurrent planning and execution. In this paper, a multi-agent system applied to dynamic job shop scheduling and planning is introduced. The above mentioned problems were solv ...

26 A fine-grained access control system for XML documents

80%

 Ernesto Damiani , Sabrina De Capitani di Vimercati , Stefano Paraboschi , Pierangela Samarati
ACM Transactions on Information and System Security (TISSEC) May 2002
Volume 5 Issue 2

Web-based applications greatly increase information availability and ease of access, which is optimal for public information. The distribution and sharing of information via the Web that must be accessed in a selective way, such as electronic commerce transactions, require the definition and enforcement of security controls, ensuring that information will be accessible only to authorized entities. Different approaches have been proposed that address the problem of protecting information in a Web ...

27 Computing and data grids for science and engineering

80%

 William E. Johnston , Dennis Gannon , Bill Nitzberg , Leigh Ann Tanner , Bill Thigpen , Alex Woo

Proceedings of the 2000 ACM/IEEE conference on Supercomputing (CDROM)

November 2000

We use the term "Grid" to refer to a software system that provides uniform and location independent access to geographically and organizationally dispersed, heterogeneous resources which are persistent and supported. While, in general, Grids will provide the infrastructure to support a wide range of services in the scientific environment (e.g. collaboration and remote instrument control) in this paper we focus on services for high performance computing and data handling. We describe the ser ...

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| 28 <u>Architecture and performance evaluation of a massive multi-agent system</u> | 80% |
|  Gaku Yamamoto , Yuhichi Nakamura
Proceedings of the third annual conference on Autonomous Agents April 1999 | |
|
 | |
| 29 <u>Design, retrieval, and assembly in component-based software development</u> | 80% |
|  Padmal Vitharana , Fatemah Mariam Zahedi , Hemant Jain
Communications of the ACM November 2003
Volume 46 Issue 11
Until recently, anecdotal evidence could only suggest CBSD superiority in requirements identification. Here is a set of testable hypotheses to help distinguish hype from fact. | |
|
 | |
| 30 <u>IT acceptance: managing user—IT group boundaries</u> | 80% |
|  David Gefen , Catherine M. Ridings
ACM SIGMIS Database August 2003
Volume 34 Issue 3
Users and IT personnel typically belong to different organizational units with different objectives and values. This often creates a perceived boundary between the two units, reducing the degree to which users accept the installation of new IT. Much IT research suggests that increased user involvement and influence on IT development can overcome user - IT personnel differences and thereby increase user acceptance. However, the realization of this objective can be problematic when implementing ne ... | |
|
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| 31 <u>Poster paper sessions: Collaboration software to reduce inventory and increase response</u> | 80% |
|  Indu Bingham , Barbara Hoeble , Kim Phan , Jim Sizemore , Arthur M. Keller
Proceedings of the 4th ACM conference on Electronic commerce June 2003
Some recent trends in business and manufacturing hold the promise of greater profits, yet, due to profit-robbing inventory increases, this promise has not been fully realized. [9] The major trends influencing this are: | |
| <ul style="list-style-type: none"> • Globally and organizationally distributed suppliers (trading partners). [7,12] • Globally and organizationally distributed sales channels (trading partners). [3,5,12] • Increasing product variety and customization. [1,2,3,5,7] | |
| In addition, due to in ... | |
|
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| 32 <u>iMobile EE: an enterprise mobile service platform</u> | 80% |
|  Yih-Farn Chen , Huale Huang , Rittwik Jana , Trevor Jim , Matti Hiltunen , Sam John , Serban Jora , Radhakrishnan Muthumanickam , Bin Wei | |

Wireless Networks July 2003

Volume 9 Issue 4

iMobile¹ is an enterprise mobile service platform that allows resource-limited mobile devices to communicate with each other and to securely access corporate contents and services. The original iMobile architecture consists of devlets that provide protocol interfaces to different mobile devices and infolets that access and transcode information based on device profiles. iMobile Enterprise Edition (iMobile EE) is a redesign of the original iMobile architecture to address the security, ...

- | | |
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| 33 Technical papers: software architecture I: Comparison of two component frameworks: the FIPA-compliant multi-agent system and the web-centric J2EE platform | 80% |
|  Michelle Casagni , Margaret Lyell
This work compares and contrasts two component frameworks: (1) the web-centric Java 2 Enterprise Edition (J2EE) framework and (2) the FIPA-compliant multi-agent system (MAS). FIPA, the Foundation for Intelligent Physical Agents, provides specifications for agents and agent platforms. Both frameworks are component frameworks; servlets and Enterprise Java Beans (EJBs) in the case of J2EE and software agents in the case of MAS. Both frameworks are specification based. Both frameworks mandate platfo ... | |
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| 34 Columns: Surfing the net for software engineering notes | 80% |
|  Mark Doernhoefer
ACM SIGSOFT Software Engineering Notes September 2002
Volume 27 Issue 5 | |
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| 35 Developing and integrating enterprise components and services: Applying model-integrated computing to component middleware and enterprise applications | 80% |
|  Aniruddha Gokhale , Douglas C. Schmidt , Balachandran Natarajan , Nanbor Wang
Communications of the ACM October 2002
Volume 45 Issue 10
Combining the best elements of these two technologies can address the key challenges associated with developing enterprise applications. | |
| <hr/> | |
| 36 Developing and integrating enterprise components and services: Enterprise application integration and complex adaptive systems | 80% |
|  Jeff Sutherland , Willem-Jan van den Heuvel
Communications of the ACM October 2002
Volume 45 Issue 10
Could system integration and cooperation be improved with agentified enterprise components? | |
| <hr/> | |
| 37 Research sessions: potpourri: Workflow management with service quality guarantees | 80% |
|  Michael Gillmann , Gerhard Weikum , Wolfgang Wonner
Proceedings of the 2002 ACM SIGMOD international conference on Management of data June 2002
Workflow management systems (WFMS) that are geared for the orchestration of business processes across multiple organizations are complex distributed systems: they consist of multiple workflow engines, application servers, and communication middleware servers such as ORBs, where each of these server types can be replicated on multiple computers for scalability | |

and availability. Finding an appropriate system configuration with guaranteed application-specific quality of service in terms of throughput ...

- 38 Future of simulation: The expanding role of simulation in future manufacturing 80%

 Charles McLean , Swee Leong

Proceedings of the 33nd conference on Winter simulation December 2001

Simulation technology holds tremendous promise for reducing costs, improving quality, and shortening the time-to-market for manufactured goods. Unfortunately, this technology still remains largely underutilized by industry today. This paper suggests benefits to industry resulting from the widespread, pervasive implementation of manufacturing simulation technology. Potential simulation impact areas are closely intertwined with strategic manufacturing. Yet, a number of factors currently inhibit th ...

- 39 Computer-supported cooperative work: A service architecture for mobile teamwork 80%

 Engin Kirda , Pascal Fenkam , Gerald Reif , Harald Gall

Proceedings of the 14th international conference on Software engineering and knowledge engineering July 2002

Mobile teamwork has become an emerging requirement in the daily business of large enterprises. Employees collaborate across locations and need support while they are on the move. Business documents (artifacts) and expertise need to be shared independent of the actual location or connectivity (e.g., access through a mobile phone, laptop, Personal Digital Assistant, etc.) of employees. Although many collaboration tools and systems exist, most do not deal with new requirements such as locating arti ...

- 40 At the forge: introducing Enhydra 80%

 Reuven Lerner

Linux Journal September 2001

Volume 2001 Issue 89

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- 1 [NSF workshop on industrial/academic cooperation in database systems](#) 85%
 Mike Carey , Len Seligman
ACM SIGMOD Record March 1999
Volume 28 Issue 1

- 2 [Future of simulation: Simulation in the international IMS MISSION project: the IMS MISSION architecture for distributed manufacturing simulation](#) 85%
 Charles McLean , Frank Riddick
Proceedings of the 32nd conference on Winter simulation December 2000
This paper presents an overview of a neutral reference architecture for integrating distributed manufacturing simulation systems with each other, with other manufacturing software applications, and with manufacturing data repositories. Other manufacturing software applications include, but are not limited to systems used to: 1) design products, 2) specify processes, 3) engineer manufacturing systems, and 4) manage production. The architecture identifies the software building blocks and interface ...

- 3 [New abstractions: Designing for scale and differentiation](#) 82%
 Karen R. Sollins
Proceedings of the ACM SIGCOMM workshop on Future directions in network architecture August 2003
Naïve pictures of the Internet frequently portray a small collection of hosts or LAN's connected by a "cloud" of connectivity. The truth is more complex. The IP-level structure of the Internet is composed from a large number of constituent networks, each of which differs in some or all of transmission technologies, routing protocols, administrative models, security policies, QoS

capabilities, pricing mechanisms, and similar attributes. On top of this, a whole new structure of application-la ...

- 4 Data integrity: The HP time vault service: exploiting IBE for timed release of confidential information 82%

 Marco Casassa Mont , Keith Harrison , Martin Sadler

Proceedings of the twelfth international conference on World Wide Web May 2003

Digital information is increasingly more and more important to enable interactions and transactions on the Internet. On the other hand, leakages of sensitive information can have harmful effects for people, enterprises and governments. This paper focuses on the problems of dealing with timed release of confidential information and simplifying its access once public: it is a common issue in the industry, government and day-to-day life. We introduce the "HP Time Vault Service", based on the emerging ...

- 5 Security of runtime extensible virtual environments 82%

 Ernesto J. Sallés , James Bret Michael , Michael Capps , Don McGregor , Andrzej Kapolka

Proceedings of the 4th international conference on Collaborative virtual environments

September 2002

Distributed, real-time virtual environment (VE) architectures have traditionally been driven by quality of service (QOS) considerations, with little or no concern paid to security issues. With recent advancements in functionality, computing power and network bandwidth it has become practical to use VEs in sensitive areas such as product development with proprietary information and visualization of classified information. Consequently, previously ignored aspects of security need to be made a prim ...

- 6 Web-based tools, systems and environments: Software configuration, distribution, and deployment of web-services 82%

 Rainer Anzböck , Schahram Dustdar , Harald Gall

Proceedings of the 14th international conference on Software engineering and knowledge engineering July 2002

Web-Services can be seen as a newly emerging distributed computing model for the Web. They cater for the need to establish business-to-business (B2B) interactions on the Web.

Web-Services consider a loosely coupled component model encapsulating business logic and interact with other components using XML protocols. Based on one case study, this paper discusses architectural issues and requirements for software configuration, distribution, and deployment of web-services.

- 7 An approach to designing reusable service frameworks via virtual service machine 82%

 Jun-Jang Jang

ACM SIGSOFT Software Engineering Notes , Proceedings of the 2001 symposium on Software reusability: putting software reuse in context May 2001

Volume 26 Issue 3

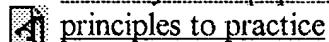
This paper proposes a new service-computing platform named Virtual Service Machine (VSM). Service computing is a new paradigm for manufacturing IT artifacts, lifting up traditional focus of software development from the level of applications to that of services. Applications are constructed for machines; services are built for people. Applications are targeted to run on a particular platform; services are aimed for serving user's needs. While service computing is getting much more attention ...

- 8 Applications and architecture: SHOCK: communicating with computational messages and automatic private profiles** 82%
 Rajan M. Lukose , Eytan Adar , Joshua R. Tyler , Caesar Sengupta
Proceedings of the twelfth international conference on World Wide Web May 2003
A computationally enhanced message contains some embedded programmatic components that are interpreted and executed automatically upon receipt. Unlike ordinary text email or instant messages, they make possible a number of useful applications. In this paper, we describe a general and flexible messaging system called SHOCK that extends the functionality of prior computational email systems by allowing XML-encoded SHOCK messages to interact with an automatically created profile of a user. These pr ...
- 9 Technical Papers: WebODE: a scalable workbench for ontological engineering** 82%
 Julio C. Arpírez , Oscar Corcho , Mariano Fernández-López , Asunción Gómez-Pérez
Proceedings of the international conference on Knowledge capture October 2001
This paper presents WebODE as a workbench for ontological engineering that not only allows the collaborative edition of ontologies at the knowledge level, but also provides a scalable architecture for the development of other ontology development tools and ontology-based applications. First, we will describe the knowledge model of WebODE, which has been mainly extracted and improved from the reference model of METHONTOLOGY's intermediate representations. Later, we will present its architecture, ...
- 10 Workshop on compositional software architectures: workshop report** 82%
 ACM SIGSOFT Software Engineering Notes May 1998
Volume 23 Issue 3
- 11 State-of-the-art presentations: Distributed component technologies and their software engineering implications** 82%
 Wolfgang Emmerich
Proceedings of the 24th international conference on Software engineering May 2002
In this state of the art report, we review advances in distributed component technologies, such as the Enterprise Java Beans specification and the CORBA Component Model. We assess the state of industrial practice in the use of distributed components. We show several architectural styles for whose implementation distributed components have been used successfully. We review the use of iterative and incremental development processes and the notion of model driven architecture. We then assess the st ...
- 12 Web-based personalization and management of interactive video** 82%
 Rune Hjelsvold , Subu Vdaygiri , Yves Léauté
Proceedings of the tenth international conference on World Wide Web April 2001
- 13 Implementation of a WebDAV-based collaborative distance learning environment** 82%
 Changtao qu , Thomas Engel , Christoph Meinel
Proceedings of the 28th annual ACM SIGUCCS conference on User services: Building the future October 2000

- 14 Quality of service in an information economy 80%
 R. Braumandl , A. Kemper , D. Kossmann
ACM Transactions on Internet Technology (TOIT) November 2003
Volume 3 Issue 4
Accessing and processing distributed data sources have become important factors for businesses today. This is especially true for the emerging virtual enterprises with their data and processing capabilities spread across the Internet. Unfortunately, however, query processing on the Internet is not predictable and robust enough to meet the requirements of many business applications. For instance, the response time of a query can be unexpectedly high; or the monetary cost might be too high if the ...
- 15 Ontologies: Local consensus ontologies for B2B-oriented service composition 80%
 Andrew Williams , Anand Padmanabhan , M. Brian Blake
Proceedings of the second international joint conference on Autonomous agents and multiagent systems July 2003
Agents seeking to discover and compose needed Web services may face knowledge sharing interoperability problems due to differing ontologies. In practice, agents may not have a global consensus ontology that will facilitate knowledge sharing and integration of required services. We investigate a method for agents to develop local consensus ontologies to aid in the communication within a multi-agent system of business-to-business (B2B) agents. We compare variations of syntactic and semantic simila ...
- 16 A security model for distributed computing 80%
 Iliya K. Georgiev , Ivo I. Georgiev
The Journal of Computing in Small Colleges October 2001
Volume 17 Issue 1
This paper presents a multi-tier model for secure computing as a teaching method platform. The security model is based on establishing the trustworthiness and role of each component in a distributed computing environment: trusted users, trusted servers, trusted administrators, untrusted client, untrusted communication media and intermediate systems, etc. The model provides a basis for teaching and for program system design. The security dimensions (both social and technical) can be considered in ...
- 17 A secure infrastructure for service discovery and access in pervasive computing 80%
 Jeffrey Undercoffer , Filip Perich , Andrej Cedilnik , Lalana Kagal , Anupam Joshi
Mobile Networks and Applications April 2003
Volume 8 Issue 2
Security is paramount to the success of pervasive computing environments. The system presented in this paper provides a communications and security infrastructure that goes far in advancing the goal of anywhere-anytime computing. Our work securely enables clients to access and utilize services in heterogeneous networks. We provide a service registration and discovery mechanism implemented through a hierarchy of service management. The system is built upon a simplified Public Key Infrastructure t ...
- 18 Full papers: A case study in software adaptation 80%
 Giuseppe Valetto , Gail Kaiser
Proceedings of the first workshop on Self-healing systems November 2002
We attach a feedback-control-loop infrastructure to an existing target system, to continually

monitor and dynamically adapt its activities and performance. (This approach could also be applied to "new" systems, as an alternative to "building in" adaptation facilities, but we do not address that here.) Our infrastructure consists of multiple layers, with the objectives of 1. probing, measuring and reporting of activity and state during the execution of the target system among its components and c ...

- 19 Industry track papers and presentations: technology trends: Building enterprise portals: 80%

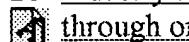


Tushar K. Hazra

Proceedings of the 24th international conference on Software engineering May 2002

Primary objective of this paper is to offer an exclusive view of constructing and deploying enterprise portals by using a component-based development approach. As the dot-com hype dies down, most companies are forced to revisit their enterprise-wide Web integration strategies. This paper offers a pragmatic roadmap that these companies may follow in their upcoming enterprise portal deployment initiatives. The academic world plays a significant role in the advances of the portal technology. In this ...

- 20 Industry track papers and presentations: product lines: Integrating hundred's of products 80%



Lars G. Brathall , Robert van der Geest , Holger Hofmann , Edgar Jellum , Zbigniew Korendo , Robert Martinez , Michal Orkisz , Christian Zeidler , Johan S Andersson

Proceedings of the 24th international conference on Software engineering May 2002

During the last few years, software product line engineering has gained significant interest as a way for creating software products faster and cheaper. But what architecture is needed to integrate huge amounts of products, from different product lines? This paper describes such an architecture and its support processes and tools. Through cases, it is illustrated how the architecture is used to integrate new --- and old --- products in such diverse integration projects as vessel motion control, ...

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1 Business-to-business interactions: issues and enabling technologies 98%

 B. Medjahed , B. Benatallah , A. Bouguettaya , A. H. H. Ngu , A. K. Elmagarmid

The VLDB Journal — The International Journal on Very Large Data Bases May 2003

Volume 12 Issue 1

Business-to-Business (B2B) technologies pre-date the Web. They have existed for at least as long as the Internet. B2B applications were among the first to take advantage of advances in computer networking. The Electronic Data Interchange (EDI) business standard is an illustration of such an early adoption of the advances in computer networking. The ubiquity and the affordability of the Web has made it possible for the masses of businesses to automate their B2B interactions. However, several issu ...

2 iMobile EE: an enterprise mobile service platform 95%

 Yih-Farn Chen , Huale Huang , Rittwik Jana , Trevor Jim , Matti Hiltunen , Sam John , Serban Jora , Radhakrishnan Muthumanickam , Bin Wei

Wireless Networks July 2003

Volume 9 Issue 4

iMobile¹ is an enterprise mobile service platform that allows resource-limited mobile devices to communicate with each other and to securely access corporate contents and services. The original iMobile architecture consists of devlets that provide protocol interfaces to different mobile devices and infolets that access and transcode information based on device profiles. iMobile Enterprise Edition (iMobile EE) is a redesign of the original iMobile architecture to

address the security, ...

- 3 Application of XML tools for enterprise-wide RBAC implementation tasks 91%
 Ramaswamy Chandramouli
Proceedings of the fifth ACM workshop on Role-based access control July 2000
The use of Extensible Markup Language (XML) and its associated APIs, for information modeling and information interchange applications is being actively explored by the research community. In this paper we develop an XML Document Type Definition (DTD) for representing the schema of a Role-based Access Control (RBAC) Model and a conforming XML document containing the actual RBAC-based access control data for a commercial banking application. Based on this DTD, the XML document and the methods ...
- 4 Document Databases: Requirements for XML document database systems 89%
 Airi Salminen , Frank Wm. Tompa
Proceedings of the 2001 ACM Symposium on Document engineering November 2001
The shift from SGML to XML has created new demands for managing structured documents. Many XML documents will be transient representations for the purpose of data exchange between different types of applications, but there will also be a need for effective means to manage persistent XML data as a database. In this paper we explore requirements for an XML database management system. The purpose of the paper is not to suggest a single type of system covering all necessary features. Instead the pur ...
- 5 Software engineering tools and environments: a roadmap 88%
 Harold Ossher , William Harrison , Peri Tarr
Proceedings of the conference on The future of Software engineering May 2000
- 6 XML-enabled workflow management for e-services across heterogeneous platforms 88%
 German Shegalov , Michael Gillmann , Gerhard Weikum
The VLDB Journal — The International Journal on Very Large Data Bases
August 2001
Volume 10 Issue 1
Advanced e-services require efficient, flexible, and easy-to-use workflow technology that integrates well with mainstream Internet technologies such as XML and Web servers. This paper discusses an XML-enabled architecture for distributed workflow management that is implemented in the latest version of our Mentor-lite prototype system. The key asset of this architecture is an XML mediator that handles the exchange of business and flow control data between workflow and business-object servers on t ...
- 7 E-P3P privacy policies and privacy authorization 88%
 Paul Ashley , Satoshi Hada , Günter Karjoh , Matthias Schunter
Proceeding of the ACM workshop on Privacy in the Electronic Society November 2002
Enterprises collect large amounts of personal data from their customers. To ease privacy concerns, enterprises publish privacy statements that outline how data is used and shared. The Platform for Enterprise Privacy Practices (E-P3P) defines a fine-grained privacy policy model. A Chief Privacy Officer can use E-P3P to formalize the desired enterprise-internal handling of collected data. A particular data user is then allowed to use certain collected data for a given purpose if and only if the E- ...

- 8 Access control mechanisms for inter-organizational workflow 88%
 Myong H. Kang , Joon S. Park , Judith N. Froscher
Proceedings of the sixth ACM symposium on Access control models and technologies
May 2001
As more businesses engage in globalization, inter-organizational collaborative computing grows in importance. Since we cannot expect homogeneous computing environments in participating organizations, heterogeneity and Internet-based technology are prevalent in inter-organizational collaborative computing environments. One technology that provides solutions for data sharing and work coordination at the global level is inter-organizational workflow. In this paper, we investigate the access co ...
- 9 Web and e-business application: An agreement centric access control mechanism for business to business e-commerce 87%
 Victoria Ungureanu
Proceedings of the 2002 ACM symposium on Applied computing March 2002
We argue that matrix-based models are inadequate for regulating business to business (or B2B, for short) e-commerce due to the diversity, complexity and potential large number of commercial agreements that have to be supported. To deal with these issues, we propose in this paper an agreement-centric access control model. The paper introduces the concept of communication agreement (*CAR*) as a means for specifying contractual terms, and presents the *CAR* enforcement mechanism. We explo ...
- 10 Departments: Interview with Adam Bosworth 87%
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Queue March 2003
Volume 1 Issue 1
- 11 NSF workshop on industrial/academic cooperation in database systems 87%
 Mike Carey , Len Seligman
ACM SIGMOD Record March 1999
Volume 28 Issue 1
- 12 Process and workflow management: Introducing eservices in business process models 85%
 Lerina Aversano , Gerardo Canfora
Proceedings of the 14th international conference on Software engineering and knowledge engineering July 2002
The need for automatic support of business processes that extend over the boundaries of an enterprise is a recognized need of emerging virtual organizations. To make workflow technologies useful during the enactment of business processes involving many partners that reciprocally provide and consume services, it is important to provide a model, and supporting technologies, to manage the introduction of services in workflow models. This paper introduces a framework for the introduction of eServices ...
- 13 Future of simulation: Simulation in the international IMS MISSION project: the IMS MISSION architecture for distributed manufacturing simulation 85%
 Charles McLean , Frank Riddick

Proceedings of the 32nd conference on Winter simulation December 2000

This paper presents an overview of a neutral reference architecture for integrating distributed manufacturing simulation systems with each other, with other manufacturing software applications, and with manufacturing data repositories. Other manufacturing software applications include, but are not limited to systems used to: 1) design products, 2) specify processes, 3) engineer manufacturing systems, and 4) manage production. The architecture identifies the software building blocks and interface ...

14 An Internet-based negotiation server for e-commerce

84%

 Stanley Y.W. Su , Chunbo Huang , Joachim Hammer , Yihua Huang , Haifei Li , Liu Wang , Youzhong Liu , Charnyote Pluemphitiwiriyawej , Minsoo Lee , Herman Lam

The VLDB Journal — The International Journal on Very Large Data Bases

August 2001

Volume 10 Issue 1

This paper describes the design and implementation of a replicable, Internet-based negotiation server for conducting bargaining-type negotiations between enterprises involved in e-commerce and e-business. Enterprises can be buyers and sellers of products/services or participants of a complex supply chain engaged in purchasing, planning, and scheduling.

Multiple copies of our server can be installed to complement the services of Web servers. Each enterprise can install or select a trusted negotia ...

15 Web-based personalization and management of interactive video

84%

 Rune Hjelvold , Subu Vdaygiri , Yves Léauté

Proceedings of the tenth international conference on World Wide Web April 2001

16 Poster Session: Web based analysis

83%

 Michael P. Carroll , Christopher M. Hawkins

Proceedings of the seventh ACM symposium on Solid modeling and applications June 2002

Most of today's Web based solutions in the CAD/CAE arena are focused on the design and manufacturing part of the equation. As such, they are very focused on data security, sharing, and visualization. The processing of the data is still seen as mainly a desktop/client function. Analysis provides an opportunity to expand the role of the Web from a role of data sharing to one of distributed data processing. For analysis, data visualization is not a static function.

Analysis runs can produce enormou ...

17 Web-based and Java-based simulation: Finding a substrate for federated components on the web

83%

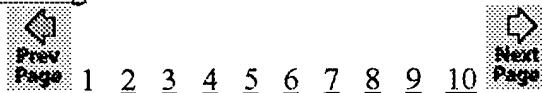
 John A. Miller , Andrew F. Seila , Junxiu Tao

Proceedings of the 32nd conference on Winter simulation December 2000

Recent developments in software component technology have renewed the promise of reusable software. Combining this with the possibilities of sharing simulation results and models using the Internet makes these new developments all the more important, particularly for Web-Based Simulation. Interoperability standards and data interchanges standards (e.g., XML) help facilitate having simulation models interact with other simulation models as well as other information technology components. This pap ...

- 18 The SI challenge in health care 83%
Jane Grimson , William Grimson , Wilhelm Hasselbring
Communications of the ACM June 2000
Volume 43 Issue 6
- 19 New abstractions: Designing for scale and differentiation 82%
Karen R. Sollins
Proceedings of the ACM SIGCOMM workshop on Future directions in network architecture August 2003
Naïve pictures of the Internet frequently portray a small collection of hosts or LAN's connected by a "cloud" of connectivity. The truth is more complex. The IP-level structure of the Internet is composed from a large number of constituent networks, each of which differs in some or all of transmission technologies, routing protocols, administrative models, security policies, QoS capabilities, pricing mechanisms, and similar attributes. On top of this, a whole new structure of application-la ...
- 20 Flexible consistency checking 82%
Christian Nentwich , Wolfgang Emmerich , Anthony Finkelstein , Ernst Ellmer
ACM Transactions on Software Engineering and Methodology (TOSEM) January 2003
Volume 12 Issue 1
The problem of managing the consistency of heterogeneous, distributed software engineering documents is central to the development of large and complex systems. We show how this problem can be addressed using xlinkit, a lightweight framework for consistency checking that leverages standard Internet technologies. xlinkit provides flexibility, strong diagnostics, and support for distribution and document heterogeneity. We use xlinkit in a comprehensive case study that demonstrates how design, impl ...

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35 Adoption of an agent-based production planning technology in the manufacturing industry

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36 Privacy-enabled services for enterprises

Karjoth, G.; Schunter, M.; Waidner, M.;

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[\[Abstract\]](#) [\[PDF Full-Text \(394 KB\)\]](#) **IEEE CNF**

37 Extra-enterprise production planning in explantech system

Vokrinek, J.; Riha, A.; Pechoucek, M.; Marik, V.;

Database and Expert Systems Applications, 2002. Proceedings. 13th International Workshop on , 2-6 Sept. 2002

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[\[Abstract\]](#) [\[PDF Full-Text \(692 KB\)\]](#) **IEEE CNF**

38 The holonic enterprise: modeling holarchies as MAS to enable global collaboration

Ulieru, M.;

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